IN THE CLAIMS

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1. (Currently Amended) A high-frequency semiconductor device comprising: a substrate; and

an Si MOS transistor and a first lateral polysilicon diode on the substrate; and m lateral polysilicon diodes on the substrate, each of the first m lateral polysilicon diodes having a forward direction and a reverse direction, wherein

the first m lateral polysilicon-diode connects, diodes are connected in series in the forward direction, between a high-frequency I/O signal line-to and an externally supplied voltage, VDD,

<u>a reverse bias voltage impressed on each of the m lateral polysilicon diodes is</u> smaller than 1.1 volts, and

m is an integer greater than 1.

2. (Currently Amended) -The A high-frequency semiconductor device-of Claim-1, further comprising-a second:

a substrate;

an Si MOS on the substrate; and

 \underline{n} lateral polysilicon-diodes on the substrate-and, each of the n lateral polysilicon diodes having a forward direction and a reverse direction, wherein

the second <u>n</u> lateral polysilicon diode connects, <u>diodes are connected in series</u> in the forward direction, <u>between</u> ground, GND, to the <u>and a high-frequency I/O signal line</u>,

a reverse bias voltage impressed on each of the n lateral polysilicon diodes is smaller than 1.1 volts, and

n is an integer greater than 1.

3. (Currently Amended) - The A high-frequency semiconductor device of Claim 2, including comprising:

a substrate;

an Si MOS transistor on the substrate; and

m lateral polysilicon diodes on the substrate, each of the m lateral polysilicon diodes having a forward direction and a reverse direction, the m polysilicon diodes being connected in series in the forward direction between-the a high-frequency I/O signal line and-the an externally supplied voltage, VDD, and n lateral polysilicon diodes on the substrate, each of the n lateral polysilicon diodes having a forward direction and a reverse direction, the n

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polysilicon diodes being connected in series between the ground, GND, and the high-frequency I/O signal line, wherein

m and n are positive integers; VDD/(n+m) is smaller than 1.1 volts, and at least one of m and n is greater than 1.

- 4. (Currently Amended) The high-frequency semiconductor device of Claim-13, wherein no lateral polysilicon diode is connected to any signal line other than the high frequency I/O signal line.
- 5. (Currently Amended) The A high-frequency semiconductor device-of Claim 1 further comprising:

a substrate;

an Si MOS transistor on the substrate;

a first lateral polysilicon diode on the substrate, the first lateral polysilicon diode having a forward direction and a reverse direction, wherein the first lateral polysilicon diode connects, in the forward direction, a high-frequency I/O signal line to an externally supplied voltage VDD; and

a capacitor having lower and upper polysilicon electrodes, wherein the first lateral polysilicon diode and the lower electrode of the capacitor are from a first polysilicon layer, and the MOS transistor has a polysilicon gate-electrode from a second polysilicon layer.

6. (Currently Amended) The A high-frequency semiconductor device-of Claim-1 further comprising:

a substrate;

an Si MOS transistor on the substrate;

a first lateral polysilicon diode on the substrate, the first lateral polysilicon diode having a forward direction and a reverse direction, wherein the first lateral polysilicon diode connects, in the forward direction, a high-frequency I/O signal line to an externally supplied voltage VDD; and

a capacitor having lower and upper polysilicon electrodes, wherein the first lateral polysilicon diode and the lower electrode of the capacitor are from a first polysilicon layer, the MOS transistor has a polysilicon gate, and the upper electrode of the capacitor and the gate are from a second polysilicon layer.

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- 7. (Previously Amended) The high-frequency semiconductor device of claim 5, wherein the polysilicon layer of the upper electrode of the capacitor covers a PN junction of the first lateral polysilicon diode.
- 8. (Previously Amended) The high-frequency semiconductor device of claim 5, wherein the capacitor includes a dielectric layer and the dielectric layer covers a PN junction of the first lateral polysilicon diode.

Claims 9-12 (Cancelled).

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- 13. (New) A high-frequency semiconductor device comprising:
- a substrate;
- an Si MOS transistor on the substrate;
- a first lateral polysilicon diode on the substrate, the first lateral polysilicon diode having a forward direction and a reverse direction, wherein the first lateral polysilicon diode connects, in the forward direction, ground, GND, to a high-frequency I/O signal line; and
- a capacitor having lower and upper polysilicon electrodes, wherein the first lateral polysilicon diode and the lower electrode of the capacitor are from a first polysilicon layer, and the MOS transistor has a polysilicon gate from a second polysilicon layer.
- 14. (New) The high-frequency semiconductor device of claim 13, wherein the polysilicon layer of the upper electrode of the capacitor covers a PN junction of the first lateral polysilicon diode.
- 15. (New) The high-frequency semiconductor device of claim 13, wherein the capacitor includes a dielectric layer and the dielectric layer covers a PN junction of the first lateral polysilicon diode.
 - 16. (New) A high-frequency semiconductor device comprising:
 - a substrate;
 - an Si MOS transistor on the substrate;
- a first lateral polysilicon diode on the substrate, the first lateral polysilicon diode having a forward direction and a reverse direction, wherein the first lateral polysilicon diode connects, in the forward direction, ground, GND, to a high-frequency I/O signal line; and

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a capacitor having lower and upper polysilicon electrodes, wherein the first lateral polysilicon diode and the lower electrode of the capacitor are from a first polysilicon layer, the MOS transistor has a polysilicon gate, and the upper electrode of the capacitor and the gate are from a second polysilicon layer.